VASCULAR ACCESS DEVICES HAVING HEMOSTATIC SAFETY VALVE

ABSTRACT OF THE DISCLOSURE

A vascular access device is provided that has a device lumen valve and a safety valve feature to prevent leakage of blood from a lumen of such device. The vascular access device includes a sheath which may have an outer tube and structure defining a device lumen located therein. The access device further includes a detachable device valve which provides sealing of the device lumen. In addition, a non-detachable hemostasis safety valve is provided on the proximal end of the device lumen to seal the device lumen when no device valve is present. The device valve attaches to and simultaneously opens the proximal end of the hemostasis safety valve. In one embodiment, the device valve includes a distal projection that pierces an elastomeric valve member of the hemostasis safety valve. The elastomeric valve member of the hemostasis safety valve is stiffer than an elastomeric valve member of the device valve, and prevents introduction of guidewires and highly flexible catheters therethrough.

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